

**THE NINTH ANNUAL
GREAT POTTER YACHTER
NORTHWEST ESCAPE
AND
MESSABOUT**



**September 2 - September 20
2011**

*“There is nothing – absolutely nothing –
half so much worth doing
as simply messing about in boats.”*

**Kenneth Grahame
“The Wind in the Willows”**

OUR MISSION



**While we travel with friends, you sail alone,
and you are the captain of your vessel.
It has been said that Pottering is a frame of mind,
where friends share the fun of sailing small craft.
Our mission is to advance the cause of Potterdom
and make safe harbor.**

Have Fun And Sail Safe!

The enclosed information and charts are for planning and reference only. The GPS coordinates have not been verified and the sailing directions are designed to help you in the planning of your route.

Cover Photo: Russ Peterson, "Salient"

MESSABOUT IX
Early Group
TRAVEL & SAIL PLAN

Note: Travel will be over Labor Day weekend and reservations are recommended.

Day 1: Friday, Sept 2, Depart for Squaticum Harbor, Bellingham, WA. Distance: approx. 900 miles, Driving time: approx. 16 hours.

Day 2: Saturday, Sept 3, Travel.

Day 3: Sunday, Sept 4, Arrive in the morning at Squaticum Harbor, launch, and depart for Inati Bay, Lummi Island (7 nm). Anchor out.

Note: Inati Bay is very popular and an alternate anchorage may be necessary at Eliza Island, weather permitting.

Day 4: Monday, Sept 5, Inati Bay to Matia Island (11 nm) or
Sucia Island (13 nm) or
Patos Island (16 nm)

Day 5: Tuesday, Sept 6, Matia to Bedwell Harbour (17 nm), North Pender Island.
Sucia to Bedwell Harbour (16 nm)
Patos Island to Bedwell Harbour (12 nm)


Note: Clear Canadian Customs at Bedwell Harbour.

Day 6: Wednesday, Sept 7, Bedwell Harbour to Maple Bay, Vancouver Island B.C. (21 nm).

Day 7: Thursday, Sept 8, Maple Bay Marina to Clam Bay, Kuper Island, via Telegraph Harbour and The Cut (13 nm). High tide 4:30 P.M. for clearing The Cut.

Day 8: Friday, Sept 9, Clam Bay to Annette Inlet, Prevost Isl. (13 nm).

Day 9: Saturday, Sept 10, Annette Inlet to Port Browning, North Pender Isl. (13 nm).

 **Day 10: Sunday, Sept 11,** Port Browning to Port Sidney Marina, Sidney, B.C. (11 nm).
Join with Late Group.

Day 11: Monday, Sept 12, Layover Sidney. Options: kickback, daysail, anchor out at Sidney Spit, or sail to Van Isle Marina (2 nm) for the night.

Day 12: Tuesday, Sept 13, Sidney to Roche Harbor, San Juan Island (10 nm). Options: stay at Roche, or anchor out at Garrison Bay.

Note: Clear U.S. Customs at Roche Harbor.

Day 13: Wednesday, Sept 14, Roche Harbor to Friday Harbor (11 nm). Options: sail around southern tip of San Juan Island (24 nm) to Friday Harbor, or go to Deer Harbor (8 nm).

Day 14: Thursday, Sept 15, Layover Friday Harbor. Options: kickback, daysail, or go to Deer Harbor (6 nm).

Day 15: Friday, Sept 16, Friday Harbor/Deer Harbor to Blakely Island Marina (9 nm).

Day 16: Saturday, Sept 17, Blakely Island Marina to Squalicum Harbor, Bellingham (18 nm). Options: sail to Inati Bay (11 nm) and anchor, then continue to Squalicum the next day (7 nm).

Day 17: Sunday, Sept 18, Travel.

Day 18: Monday, Sept 19, Travel.

Day 19: Tuesday, Sept 20, Arrive home

STUFF TO KNOW

General:

1. **Gusty winds** are possible northeast of Orcas Island if the wind is out of the south to west. **We will be sailing in this area.** The wind can go from 0 to 40 MPH in seconds. Watch for gusts hitting the water.
2. Be aware of **overfalls** where a current runs over a shallow spot. **Overfalls** are a lot like standing river rapids. If sailing with the current, it is hard to see them until into them. If sailing against the current and paying attention, you should be able to see and avoid.

Charts:

1. Canadian Hydrographic Service, Juan De Fuca Strait, #3462; and Strait of Georgia, #3463
2. Waterproof Charts: San Juan Islands, #43; and Gulf Islands – British Columbia, #86.
www.waterproofcharts.com

Travel to Canada:

1. As of March 1, 2011, the requirements/procedures are the same as last year.
2. For Canada, you will need your boat's registration number and the names, citizenship, birth date, and residence of passengers. Be sure to **write down your Canadian Clearance Number**. For complete information, see <http://www.sanjuanyachting.com/customs.htm>
3. For the U.S. you will need a passport(s), boat registration, and the Canadian Clearance Number. Check www.cbp.gov and click on the drivers license in the lower right hand corner. For information, you can call Roche Harbor (360) 378-2080.
4. In Canada, **firearms are not permitted**. Each adult is permitted 40 fluid ounces of liquor, 1.5 liters of wine, or 24 – 12 ounce bottles of beer.
4. In Canada, report to a designated Customs-Port-of-Entry. If landing at an unmanned location, call 1-888-226-7277 (toll free). Customs Clearance by telephone at the Customs Dock at Bedwell Harbour, and Port Sidney Marina.
5. In U.S. report to a designated port-of-entry. Roche Harbor, tel: (360) 378-2080; or Friday Harbor, tel: (360) 378-2080.

Moorage and Launch Fees:

1. Marine Parks: Fossil Bay, Reid Harbor, Prevost Harbor, etc. The daily fee is 50 cents per foot, with a minimum of \$10. Moorage buoys are \$10 a night. Pay at dock.
2. At Marinas, plan on paying up to \$2.00 a foot per night.
3. Squalicum Harbor: \$10.00. Pay at the machine at ramp and display the ticket on dash.

Marinas:

Bellingham, Squalicum Harbor. All services, cafe, laundry, showers, parking, launch ramp etc. Harbor Master, hail on VHF Ch 16. Tel: (360) 676-2542.
www.portofbellingham.com

Note: Cost to launch is \$10.00 in and out. Pay at the machine at ramp and display the ticket on dash.

Bedwell Harbour, South Pender Island. Customs clearance by telephone at the Customs office on dock at Bedwell Harbour. Tel (250) 629-3363.

Poet's Cove Marina. Very Posh, moorage, showers, cafe, pool, etc. Hail on VHF 66A. Tel: (250) 629-2111 or (866) 888-2683. Website: www.poetscove.com

Blakely Island Marina, Blakely Island. Hail on VHF Ch 66A. Tel: (360) 375- 6121. Guest moorage, water, showers, provisions. No cafe, eat on boats. Fresh, hot pastries, donuts, coffee at store in morning.

Deer Harbor Marina, Orcas Island. Hail on VHF Ch 78A. Tel: (360) 376-3037. Most services available, dining located nearby. Website: www.bellportgroup.com.

Friday Harbor, San Juan Island. All services available. Hail on 66A for slip assignment. Tel: (360) 378-2688.
www.portfridayharbor.org

Ganges Marina, Salt Spring Island. All services, easy walking distance to town. Hail on VHF 66A. Tel: (250) 537-5242.
www.gangesmarina.com

Inati Bay, Lummi Island. A good stopping place between Squalicum and either Blakely Island Marina or Fossil Bay, Sucia Island. Good Anchorage. Enter south of the white buoy. A rock in the entrance is barely covered at high tide.

Maple Bay Marina, B.C. All services. Hail on Ch 66A for slip assignment. Tel: (866) 746-8482, (250) 746-8482. www.maplebaymarina.com

Marine State Parks: Fossil Bay, Sucia Island; Reid Harbor, Stuart Island.

Pit toilets, fresh water available. Daily fee is 50 cents per foot, with a minimum of \$10. Moorage buoys are \$10 a night. Pay at dock.

Montague Harbour, Galiano Island. Hail marina on VHF 66A. Tel: (250) 539-5733.

Most services. www.montagueharbour.com

Montague Harbour Marine Park with mooring dock is at north end of harbor. Also, several good anchorages in the bay.

Otter Bay Marina, North Pender Island. Otter Bay Marina is past the ferry terminal,

behind the point of land with all the flags. Hail on VHF 66A Tel: (250) 629-3579. Most

services. Website: www.otterbaymarina.ca

Port Browning Marina, North Pender Island. Hail on VHF 66A. Tel: (250) 629-3493.

Most services available. Good anchorage nearby but easterly exposure.

www.portbrowning.com

Port Sidney Marina, Vancouver Island, B.C. Hail on VHF Ch 66A. Tel: (250) 655-

3711. All services but long walk from guest slips to office. Customs clearance available

via courtesy telephone at Customs Check-in at end of F Dock. Enter marina and turn to

port. Website: www.portsidney.com.

Roche Harbor, San Juan Island. Clear customs at office on end of dock at marina. Hail

on VHF Ch 78A. Tel: (800) 586-3590. Advertised as a premier, state-of-the-art marina

(translation: expensive). Website: www.rocheharbor.com

Sidney Spit Marine Park, Sidney Island. Mooring buoys and a dock available. Located

2.5 nm east of Sidney, across Sidney Channel.

Telegraph Harbour Marina, Thetis Island. Most services available. Monitors 66A.

Tel: (250) 246-9511, (800) 246-6011

www.telegraphharbour.com

Thetis Island Marina, Thetis Island. Full service marina. Hail on 66A. Tel: (250) 246-

1443 or 246-3464. www.thetisisland.com

Van Isle Marina, Tsehum Harbour, Sidney. All services available. Customs clearance.

Hail on 66A. Tel: (250) 656-0182. www.vanislemarina.com

Note:

Satellite coverage: Google Earth provides detailed photography of the entire San Juans and Gulf Islands.

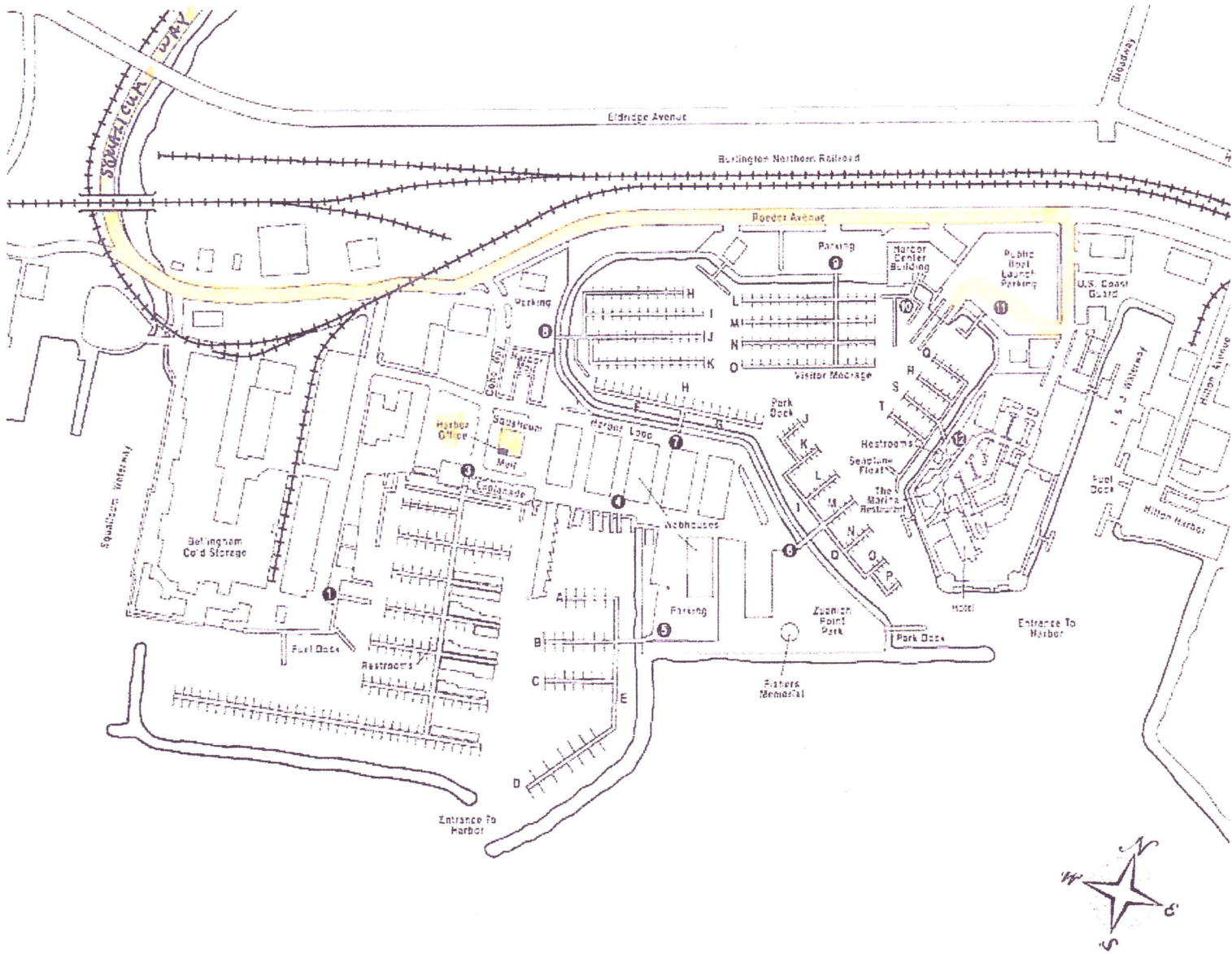
DRIVING DIRECTIONS
to
Bellingham WA

Distance: approx 900 miles from the Bay area. Driving time: approx 16 hours.

1. Take **I-5 North** approx 600 miles to southern edge of Portland, OR.
2. Take **I-205 North** (Exit 288) – go 37 miles to bypass Portland traffic.
3. Rejoin **I-5 North** (Exit 36) – go 149 miles to southern edge of Seattle, WA.
4. Take the **405 North** (Exit 154) – go 31 miles to bypass Seattle traffic.
5. Rejoin **I-5 North** (Exit 182) – go 70 miles to Bellingham, WA.
6. In **Bellingham**: take the Meridian St. exit (Exit 256).
7. Turn left onto **Meridian St.** – go .4 mile.
8. Turn right onto **Squalicum Way** – go 2 miles.
9. Proceed to the **Squalicum Harbor** area. See map.

Note: launch ramp is on the east side of the Harbor Center Building at 1801 Roeder Ave.
Cost to launch is \$10.00 in and out. Pay at the machine at ramp and display the ticket on dash. Harbor office phone: (306) 676-2542.

SQUALICUM HARBOR



SAILING DIRECTIONS

Early Group

General:

1. Gusty winds are possible northeast of Orcas Island if the wind is out of the south to west. **We will be sailing in this area.** The wind can go from 0 to 40 MPH in seconds. Watch for gusts hitting the water.

2. Be aware of “overfalls” where a current runs over a shallow spot. Overfalls are a lot like standing river rapids. If sailing with the current, it is hard to see them. If sailing against the current, and you are paying attention, you should be able to see them soon enough to avoid.

Bellingham (Squalicum Harbor) to Inati Bay, Lummi Island (7 nm).

Sun, Sept 4: Expect counter currents < .5 kts.

- Clear harbor and sail SSW (205) for 7 nm to Inati Bay on Lummi Island.
- Enter Inati Bay south of white buoy.

Inati Bay to Fossil Bay, Sucia Island (13 nm).

Mon, Sept 5: Fair currents 7:00 A.M. until 3:00 P.M.

- Clear Inati Bay and sail WNW (305) for 6 nm to Point Migley.
- Sail WSW (250) for 7 nm to Fossil Bay.

Warning: North and southbound freighter traffic in Rosario Strait.

Fossil Bay to Bedwell Harbour, South Pender Island (16 nm).

Tue, Sept 6: Depart as early as possible for best currents. Expect counter currents in Boundary Pass in A.M. building to < 2.5 kts.
2:00 P.M to 3:00 P.M. counter currents start to decrease.

- Clear Fossil Bay, 1 nm.
- Sail WSW (245) for 13 nm to clear south end of South Pender Island.
- Sail WNW (295) for 2 nm to enter Bedwell Harbour from the west side of South Pender Island via Wallace Point.

Note: Clear Canadian customs at Bedwell Harbour.

SAILING DIRECTIONS (cont.)

Bedwell Harbour to Maple Bay, Birds Eye Cove, Vancouver Isl., B.C. (21 nm).
Wed, Sept 7: Fair currents 6:00 A.M. to 3:00 P.M.

- Sail SE (130) 1 nm to clear Bedwell Harbour.
- Sail WSW (250) 6 nm to clear Moresby and Portland Islands and enter Satellite Channel.
- Sail SW (230) 5 nm to clear Cape Keppel, Salt Spring Island.
- Sail WNW (300) 4.5 nm to enter Sansum Narrows.
- Turn N (360) 2 nm to clear Octopus Point, Vancouver Island.
- Sail W (280) 1.5 nm and enter Maple Bay.
- Sail Southward 1 nm to marina in Birds Eye Cove.

Maple Bay Marina to Clam Bay, Kuper Island (13 nm), via Telegraph Harbour.
Thur, Sept 8: Fair currents 8:00 A.M. to 3:00 P.M. High tide to clear The Cut 4:30 P.M.

- Clear marina and sail N (010) 2 nm to enter Sansum Narrows.
- Sail NW (320) 8.5 nm to enter Telegraph Harbour.
- Sail NNW (335) 1.5 nm to head of Telegraph Harbour and enter The Cut.
High Tide: 4:30 P.M.
- Sail Eastward through The Cut 1 nm and enter Clam Bay. Anchor out.

Clam Bay, to Annette Inlet, Prevost Island (13 nm).

Fri, Sept 9: Fair currents 6:00 A.M. to 9:00 A.M. Expect building counter currents to < 1 kt 9:00 A.M. to 3:00 P.M.

- Clear Clam Bay and sail ESE (115) 12 nm down Trincomali Channel and enter Captain Passage.
- Sail SE (130) 1 nm into Annette Inlet.

Annette Inlet to Port Browning, North Pender Island (13 nm).

Sat, Sept 10: Fair currents 6:00 A.M. to 8:00 A.M. Expect counter currents < 1 kt 9:00 A.M. to 1:00 P.M.

- Sail WNW (290) 1 nm to clear Annette Inlet. Enter Captain Passage.
- Sail Northward 1.5 nm to Clear Peile Point, Prevost Island.
- Sail Eastward (100) 6 nm and clear Navy Channel.
- Sail SE (130) 3 nm into Plumper Sound to Razor Point, North Pender Island.
- Round Razor Point and sail Westward (275) 1.5 nm to Port Browning Marina.

Warning: Heavy ferry traffic in vicinity of Active Pass and Swanson Channel.

SAILING DIRECTIONS **(cont.)**

Port Browning to Port Sidney Marina, Sidney, B.C. (12 nm).

Sun, Sept 11: Depart as early as possible to clear South Pender Bridge (low tide 11:00 A.M.) and catch fair currents 7:00 A.M. to 12:00 noon. Counter Currents building to 2.0 kts in afternoon.

- Clear marina and sail SE (135) 1 nm to clear South Pender Island Bridge.
- Sail ESE (120) 2 nm to clear Bedwell Harbour.
- Sail SW (215) 8 nm to Sidney.

Warning: Expect heavy traffic crossing Swanson Channel.

Sidney to Roche Harbor, San Juan Island, 10 nm.

Tues, Sept 13: Depart 8:00 – 9:00 A.M. for fair currents. Expect strong counter current in Spieden Channel.

- Clear marina and sail ENE (060) for 2 nm to clear north tip of Sidney Spit.
- Sail E (085) for 7 nm to Roche Harbor entrance on east side of Battleship and Henry Islands.
- Turn Southward to enter Roche Harbor. Marina is 1 nm on east side of harbor.

Warning: North and southbound freighter traffic in Haro Strait.

Note: Clear U.S. Customs. Customs shack is in middle of end dock.

Roche Harbor to Friday Harbor, San Juan Island, 11 nm.

Wed, Sept 14: Depart no later than 7:00 A.M. for fair currents in Spieden Channel.

- Clear harbor to north, 1 nm, and turn to starboard.
- Sail around San Juan Island to Friday Harbor, 10 nm.

Friday Harbor to Blakely Island Marina, Blakely Island, 9 nm.

Fri, Sept 16: Fair currents all day.

- Sail ENE (065) for 3 nm to cross San Juan Channel and enter Upright Channel.
- Sail NNE (030) up Upright Channel for 3 nm to clear Upright Head, Lopez Isl.
- Sail NE (055) for 3 nm to Blakely Island Marina.

SAILING DIRECTIONS (cont.)

Blakely Island Marina to Squalicum Harbor, Bellingham, Lummi Island, 18 nm.
Sat, Sept 17: Depart 8:00 A.M. for fair currents.

- Clear marina and turn to East for 1 nm to sail through Peavine Pass.
- Sail NE (045) for 6 nm to clear northern end of Sinclair Island.
- Sail ENE (065) for 3 nm to round Carter Point on south end of Lummi Island.
- Sail Northward (010) for 8 nm to Squalicum Harbor.

**Warning: North and southbound freighter traffic in Rosario Strait.
Avoid Viti Rocks .75 nm SW of Carter Point.**

SAILING DIRECTIONS OPTIONS

Roche Harbor to Deer Harbor, Orcas Island, 11 nm.

- Clear harbor to north, 1 nm, and turn to E.
- Sail ENE (075) for 2 nm to clear Spieden Island.
- Sail E (090) for 2 nm to clear southern tip of Jones Island.
- Sail ENE (070) for 1 nm to enter Deer Harbor.
- Sail Northward for 1 nm to Deer Harbor Marina.

Friday Harbor to Deer Harbor, Orcas Island, 6 nm.

- Clear harbor, 1 nm to E.
- Sail NW (320) for 2.5 nm to NW tip of Shaw Island.
- Sail N (360) for 3 nm to Deer Harbor Marina.

Deer Harbor to Friday Harbor, San Juan Island, 6 nm.

- Sail S (180) for 3 nm to enter San Juan Channel.
- Sail SE (140) for 2 nm to enter Friday Harbor. Marina is 1 nm to West.

Deer Harbor to Blakely Island Marina, Blakely Island, 9 nm.

- Sail Southward 2nm to clear Deer Harbor.
- Depending on currents, go through Pole Pass (on north side of Crane Island), or round Crane Island to the south.
- Sail ENE (075) for 7 nm to Blakely Island Marina, on north tip of Blakely Island.

GPS COORDINATES

(dd-mm-ss)

Not Verified

Annette Inlet, Prevost Island

48-49-30 N
123-23-12 W

Bellingham, Squalicum Harbor

48-45-09 N
122-29-50 W

Bedwell Harbour, S. Pender Island

48-44-47 N
123-13-48 W

Birds Eye Cove, Maple Bay

48-48-00 N
123-35-58 W

Blakely Island Marina

48-35-09 N
122-48-58 W

Cape Keppel, Salt Spring Island

48-42-43 N
123-29-23 W

Captain Passage WP

48-49-50 N
123-24-20 W

Carter Point, Lummi Isl. (S)

48-38-20 N
122-36-28 W

Clam Bay, Kuper Island

48-59-00 N
123-38-40 W

Deer Harbor Marina, Orcas Island

48-37-11 N
123-00-11 W

Doe Island Marine Park, Orcas Island

48-38-00 N
122-47-08 W

Fisherman Bay Entrance, Lopez Island

48-31-24 N
122-55-03 W

Fossil Bay, Sucia Island

48-44-50 N
122-53-42 W

Friday Harbor, San Juan Island

48-32-23 N
123-00-51 W

Ganges, Salt Spring Island

48-51-19 N
123-29-45 W

Inati Bay, Lummi Island

48-40-23 N
122-37-18 W

Jones Island (N)

48-37-14 N
123-02-45 W

Lopez Islander Bay Resort

48-30-50 N
122-54-56 W

Montague Harbour, Galiano Island

48-53-37 N
123-24-08 W

Octopus Point, Vancouver Island

48-47-57 N
123-33-40 W

Olga, Orcas Island

48-37-04 N
122-50-09 W

Otter Bay, N. Pender Island

48-47-53 N
123-18-30 W

Patos Island

48-47-05 N
122-57-54 W

Peavine Pass, Blakely Island (N)

48-35-24 N
122-48-34 W

Peile Point, Prevost Island

48-51-03 N
123-24-20 W

Phillimore Point, Galiano Island

48-52-20 N
123-23-37 W

Point Migley, Lummi Island (N)

48-45-00 N
122-42-54 W

Port Browning, North Pender Island

48-46-30 N
123-16-15 W

Razor Point, North Pender Island

48-46-11 N
123-14-16 W

Reid Harbor, Stuart Island

48-40-31 N
123-12-02 W

Roche Harbor Entrance, San Juan Island

48-37-12 N
123-10-18 W

Rolfe Cove, Matia Island

48-44-57 N
122-50-35 W

Rosario Resort, Orcas Island

48-38-45 N
122-52-10 W

Scott Point, Salt Spring Island

48-50-20 N
123-25-10 W

Sidney Marina, Vancouver Island, B.C.

48-39-08 N
123-23-32 W

Sidney Spit, Sidney Island

48-39-17 N
123-20-48 W

Telegraph Harbour, Thetis Island

48-58-58 N
123-40-12 W

Upright Head, Lopez Island (N)

48-34-30 N
122-53-00 W

Viti Rocks

48-38-00 N
122-37-20 W

Wallace Point, South Pender Island

48-44-10 N
123-13-48 W

**Tides at Haro Strait / Roche Harbor,
San Juan Island, WA
September 2011
(Time Zone: PDT)**

Date	High*	Low *	High *	Low*	High*
Sun 04		0425 / -0.32	1206 / 6.57	1628 / 5.27	2154 / 7.2
Mon 05		0528 / -0.3	1335 / 6.83	1807 / 5.56	2254 / 6.83
Tue 06		0631 / -0.02	1442 / 7.12	1938 / 5.40	
Wed 07	0010 / 6.49	0736 / 0.16	1533 / 7.31	2047 / 4.97	
Thu 08	0132 / 6.28	0834 / 0.34	1613 / 7.35	2137 / 4.42	
Fri 09	0246 / 6.21	0923 / 0.57	1645 / 7.28	2215 / 3.81	
Sat 10	0347 / 6.2	1004 / 0.85	1712 / 7.14	2347 / 3.16	
Sun 11	0440 / 6.2	1041 / 1.21	1735 / 6.98	2316 / 2.5	
Mon 12	0528 / 6.2	1115 / 1.64	1754 / 6.84	2346 / 1.84	
Tue 13	0613 / 6.21	1148 / 2.16	1812 / 6.76		
Wed 14		0017 / 1.22	0658 / 6.21	1221 / 2.74	1832 / 6.71
Thu 15		0050 / 0.72	0746 / 6.21	1255 / 3.38	1853 / 6.66
Fri 16		0126 / 0.36	0837 / 6.17	1332 / 4.05	1918 / 6.59
Sat 17		0206 / 0.18	0935 / 6.13	1411 / 4.7	1945 / 6.49
Sun 18		0302 / 0.15	1045 / 6.11	1502 / 5.28	2015 / 6.36
Mon 19		0341 / 0.22	1212 / 6.19	1628 / 5.71	2049 / 6.21
Tue 20		0439 / 0.32	1337 / 6.42	1828 / 5.81	2136 / 6.05

* **Time** / feet

SUNRISE & SUNSET

ROCHE HARBOR

September 2011

<u>Date</u>	<u>Sunrise</u>	<u>Sunset</u>
1	-- 6:29 am	-- 7:52 pm
2	-- 6:30 am	-- 7:50 pm
3	-- 6:32 am	-- 7:48 pm
4	-- 6:33 am	-- 7:46 pm
5	-- 6:35 am	-- 7:44 pm
6	-- 6:36 am	-- 7:42 pm
7	-- 6:37 am	-- 7:40 pm
8	-- 6:39 am	-- 7:38 pm
9	-- 6:40 am	-- 7:35 pm
10	-- 6:42 am	-- 7:34 pm
11	-- 6:43 am	-- 7:32 pm
12	-- 6:44 am	-- 7:29 pm
13	-- 6:46 am	-- 7:27 pm
14	-- 6:47 am	-- 7:25 pm
15	-- 6:49 am	-- 7:23 pm
16	-- 6:50 am	-- 7:21 pm
17	-- 6:51 am	-- 7:19 pm
18	-- 6:53 am	-- 7:17 pm
19	-- 6:54 am	-- 7:14 pm
20	-- 6:56 am	-- 7:12 pm
21	-- 6:57 am	-- 7:10 pm
22	-- 6:59 am	-- 7:08 pm
23	-- 7:01 am	-- 7:06 pm
24	-- 7:04 am	-- 7:03 pm
25	-- 7:03 am	-- 7:02 pm
26	-- 7:04 am	-- 7:00 pm
27	-- 7:06 am	-- 6:58 pm
28	-- 7:07 am	-- 6:56 pm
29	-- 7:09 am	-- 6:53 pm
30	-- 7:10 am	-- 6:51 pm